

1 234. (New) The system of claim 33 wherein said receiver is for holding, simultaneously for each of  
2 said plurality of transmitters, data indicative of an expected time and an expected frequency of at least one  
3 future routine transmission.

1 35. (New) The system of claim 33 wherein each of said plurality of transmitters includes, in at least  
2 a portion of said routine transmissions, data for indicating at least one of: (a) frequency sequence for  
3 controlling frequency of said transmission opportunities, and (b) time sequence for controlling time of said  
4 transmission opportunities.

1 436. (New) The system of claim 33 wherein each of said plurality of transmitters includes, in at least  
2 a portion of said routine transmissions, data for indicating at least one of: (a) frequency of at least one future  
3 transmission opportunity, and (b) time of at least one future transmission opportunity.

1 537. (New) The system of claim 33 wherein said transmission opportunities are synchronized with  
2 said routine transmissions.

1 638. (New) The system of claim 33 wherein transmission frequency of said routine transmissions is  
2 controlled according to a first sequence, and frequency of said transmission opportunities is controlled  
3 according to a second sequence, and said first sequence is synchronized with said second sequence.

1 739. (New) The system of claim 33 wherein said first time intervals are controlled according to a  
2 first sequence, and said second time intervals are controlled according to a second sequence, and said first  
3 sequence is synchronized with said second sequence.

1 840. (New) A method comprising:  
2 transmitting, by each of a plurality of transmitters, intermittently and at various transmission  
3 frequencies: (a) routine transmissions, at first time intervals, and (b) urgent transmissions, in response to  
4 urgency, at transmission opportunities at second time intervals; wherein said transmissions are independent  
5 of any receiver for receiving any of said transmissions and independent of any of said plurality of  
6 transmitters, and

7 holding, in a receiver, simultaneously for each of said plurality of transmitters, data indicative of an  
8 expected time and an expected frequency of at least one future transmission opportunity.

1 941. (New) The method of claim 40 further comprising holding, in said receiver, simultaneously for  
2 each of said plurality of transmitters, data indicative of an expected time and an expected frequency of at  
3 least one future routine transmission.

1 1042. (New) The method of claim 40 further comprising, including by each of said plurality of  
2 transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a)  
3 frequency sequence for controlling frequency of said transmission opportunities, and (b) time sequence for  
4 controlling time of said transmission opportunities.

1 | 143. (New) The method of claim <sup>8</sup>40 further comprising, including by each of said plurality of  
2 transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a)  
3 frequency of at least one future transmission opportunity, and (b) time of at least one future transmission  
4 opportunity.

1 | 144. (New) The method of claim <sup>8</sup>40 wherein said transmission opportunities are synchronized with  
2 said routine transmissions.

1 | 145. (New) The method of claim <sup>8</sup>40 wherein transmission frequency of said routine transmissions is  
2 controlled according to a first sequence, and frequency of said transmission opportunities is controlled  
3 according to a second sequence, and said first sequence is synchronized with said second sequence.

1 | 146. (New) The method of claim <sup>8</sup>40 wherein said first time intervals are controlled according to a  
2 first sequence, and said second time intervals are controlled according to a second sequence, and said first  
3 sequence is synchronized with said second sequence.

1 | 1547. (New) A telemetry receiver comprising:  
2 logic for holding, simultaneously for each plurality of transmission opportunities, data indicative  
3 of an expected time and an expected frequency of at least one future opportunity, wherein each said  
4 plurality of opportunities is for a different one of a plurality of transmitters, and wherein each of said  
5 plurality of transmitters is for transmitting intermittently, at various transmission frequencies: (a) routine  
6 transmissions, at time intervals, and (b) urgent transmissions, in response to urgency, at at least one of  
7 said opportunities; wherein each of said plurality of transmitters is for transmitting independently of any  
8 receiver for receiving any of said transmissions and independently of any other of said plurality of  
9 transmitters, and

10 a frequency selective circuit for receiving said transmissions.

1 | 1648. (New) The receiver of claim <sup>15</sup>47 wherein said logic is, further, for holding simultaneously for  
2 each of said plurality of transmitters, data indicative of an expected time and an expected transmission  
3 frequency of at least one future routine transmission.

1 | 1749. (New) The receiver of claim <sup>15</sup>47 wherein, in operation, for each of said plurality of  
2 transmitters, said receiver changes frequency of said frequency selective circuit to said expected  
3 frequency of said at least one transmission opportunity at such time relative to said expected time of said  
4 at least one transmission opportunity to receive and demodulate, when it occurs, said at least one urgent  
5 transmission.

1 <sup>18</sup>50. (New) The receiver of claim <sup>15</sup>47 comprising a frequency error detector to detect a difference  
2 between an actual and an expected transmission frequency of said routine transmissions, wherein said  
3 receiver utilizes said difference to determine an expected time of a future transmission opportunity.

1 <sup>19</sup>51. (New) The receiver of claim <sup>15</sup>47 wherein said receiver detects a difference between an actual  
2 and an expected transmission time of said routine transmissions, and wherein said receiver utilizes said  
3 difference to determine an expected time of a future transmission opportunity.

1 <sup>20</sup>52. (New) The receiver of claim <sup>15</sup>47 wherein, said receiver extracts, from at least a portion of said  
2 routine transmissions, data indicative of at least one of: (a) pattern of frequency variations for said  
3 transmissions opportunities, and (b) pattern of time interval variations for said transmission opportunities.

1 <sup>21</sup>53. (New) The receiver of claim <sup>15</sup>47 wherein, said receiver determines at least one of: (a) time of  
2 at least one future transmission opportunity and (b) frequency of at least one future transmission  
3 opportunity based on data included in at least one routine transmission.

1 <sup>22</sup>54. (New) A plurality of telemetry transmitters, each of which comprises:  
2 a circuit for transmitting intermittently and at various transmission frequencies: (a) routine  
3 transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission  
4 opportunities at second time intervals, and

5 logic for controlling frequency and time for said transmission opportunities and said routine  
6 transmissions independently of any receiver for receiving any of said transmissions and independently of  
7 any other of said plurality of transmitters.

1 <sup>23</sup>55. (New) The plurality of transmitters of claim <sup>22</sup>54 wherein said transmission opportunities are  
2 synchronized with said routine transmissions.

1 <sup>24</sup>56. (New) The plurality of transmitters of claim <sup>22</sup>54 wherein each of said plurality of transmitters  
2 includes, in at least a portion of said routine transmissions, data indicative of synchronization information  
3 for at least a portion of future transmission opportunities.

1 <sup>25</sup>57. (New) The plurality of transmitters of claim <sup>22</sup>54 wherein each of said plurality of transmitters  
2 controls transmission frequency and time according to a frequency-time sequence that is different for each  
3 of said plurality of transmitters.

1 <sup>26</sup>58. (New) The plurality of transmitters of claim <sup>23</sup>54 wherein each of said plurality of transmitters  
2 includes, in at least a portion of said routine transmissions, data indicative of a sequence for controlling at  
3 least one of: (a) frequency, and (b) time, for at least a portion of future transmission opportunities.

1 <sup>22</sup> 27 59. (New) The plurality of transmitters of claim 54 wherein transmission frequency of said routine  
2 transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is  
3 controlled according to a second sequence, and said first sequence is synchronized with said second  
4 sequence.

1 <sup>22</sup> 28 60. (New) The plurality of transmitters of claim 54 wherein said first time intervals are controlled  
2 according to a first sequence, and said second time intervals are controlled according to a second  
3 sequence, and said first sequence is synchronized with said second sequence.

1 <sup>22</sup> 29 61. (New) A plurality of telemetry transmitters, each of which comprises:  
2 a circuit for transmitting intermittently and at various transmission frequencies: (a) routine  
3 transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission  
4 opportunities at second time intervals, and

5 logic for including in at least a portion of said routine transmissions data indicative of at least one  
6 of: (a) frequency pattern for varying frequency for said transmission opportunities and (b) time pattern for  
7 varying said second time intervals;

8 wherein each of said plurality of transmitters is for transmitting independently of any receiver for  
9 receiving any of said transmissions and independently of any other of said plurality of transmitters.

1 <sup>29</sup> 30 62. (New) The plurality of transmitters of claim 61 wherein said data is based on bits of transmitter  
2 identification.

1 <sup>29</sup> 31 63. (New) The plurality of transmitters of claim 61 wherein said transmission opportunities are  
2 synchronized with said routine transmissions.

1 <sup>29</sup> 32 64. (New) The plurality of transmitters of claim 61 wherein each of said plurality of transmitters  
2 includes, in at least a portion of said routine transmissions, data indicative of synchronization information  
3 for at least a portion of future transmission opportunities.

1 <sup>29</sup> 33 65. (New) The plurality of transmitters of claim 61 wherein each of said plurality of transmitters  
2 controls transmission frequency and time according to a frequency-time sequence that is different for each  
3 of said plurality of transmitters.

1 <sup>29</sup> 34 66. (New) The plurality of transmitters of claim 61 wherein transmission frequency of said routine  
2 transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is  
3 controlled according to a second sequence, and said first sequence is synchronized with said second  
4 sequence.